

Biomedical



Beyond measure. Beyond the facilities, beyond the samples, beyond the clinical trials, Missouri's greatest contribution to the biomedical industry is a community of researchers that is truly beyond measure. And with top-ranked schools and a cadre of well-known device and pharmaceutical manufacturers already here, the state is in an excellent position to lead the industry forward.

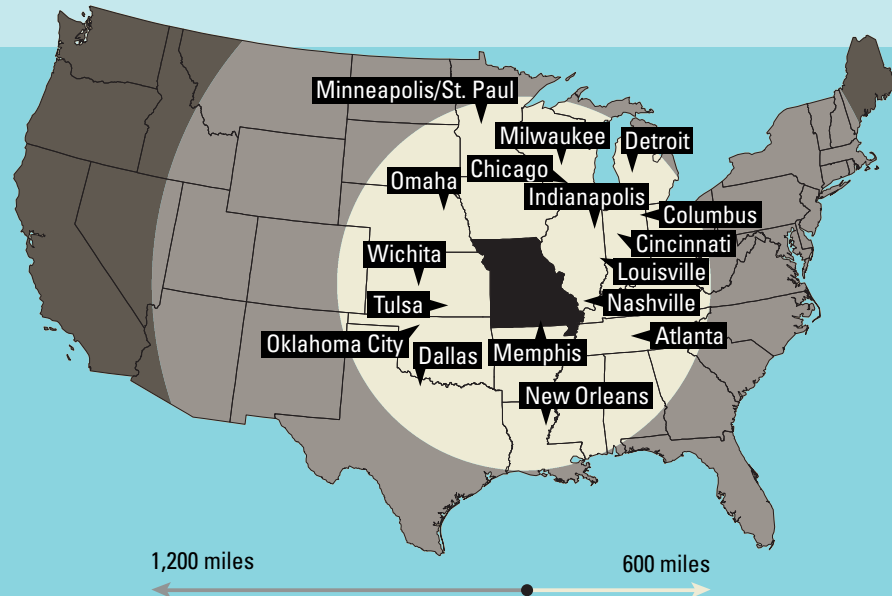
Missouri's low business and energy costs—combined with its research capabilities—make it a top pick for bioscience companies from around the globe. Measure for measure, you will not find a better home for your business.



"Missouri's commitment to scientific advancement and large, turn-key labor pool have helped make it the top destination for biomedical facility development. In addition to being home to some of the most prestigious hospitals, medical schools, and bioscience companies—including Monsanto and Sigma-Aldrich—in the country, Missouri boasts a low-cost business climate, easy access to investors, and facilities devoted to biomedical research and commercialization across the state."

— Governor Jeremiah W. "Jay" Nixon

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Missouri's pro-business rankings:

3rd lowest business costs, including employee wages (*CNBC*, 2011)

8th most pro-business state (*Pollina Corporate Real Estate*, 2011)

In the top 10 of the U.S. for tax rankings:

Top 10 for property tax index

Top 10 for corporate income tax index

Top 10 for unemployment insurance tax index (*Tax Foundation*, 2012)



Missouri's Top Advantages for the Biomedical Industry

Missouri has the right workforce to sustain bioscience companies.

- There are over **50,000** Missourians employed in **3,433** bioscience-related firms (*U.S. Bureau of Labor Statistics, 2011*).
- **86.2** percent of Missouri's population has attained a high school diploma or higher, exceeding the national average of 85 percent.
- Over **1.4 million** Missourians hold a bachelor's degree or higher (*U.S. Census Bureau, American Community Survey*).

Missouri has long been recognized for having the right business environment for bioscience companies.

- A recent study called the National Cluster Mapping Project, ranks St. Louis's biopharmaceutical cluster as the **6th** largest in the nation, ahead of such areas as Boston, Cleveland, and San Diego. The study, which was conducted through Harvard Business

School, ranked Missouri **12th** for employment in biopharmaceuticals.

- The Kansas City region is **5th** per capita in clinical trials conducted (*Missouri Biotechnology Association*).
- Missouri has the **3rd** lowest business costs in the U.S. (*CNBC, 2011*).

Missouri's state of the art research centers, incubator facilities, and hospitals support companies in bringing their discoveries from the laboratory to the market.

- Missouri has **23** specialized biomedical incubators and research centers spread throughout the state.
- Missouri is home to the largest university-operated research reactor in the country at the University of Missouri in Columbia.
- Scientists at the Washington University Genome Sequencing Center were the first in the world to decode the complete DNA sequence of a cancer patient (*Missouri Biotechnology Association*).

- Missouri is home to the Stowers Institute, one of the most innovative biomedical research centers in the world, as well as **5** of the top-rated hospitals in the U.S.: Barnes-Jewish Hospital, St. Louis Children's Hospital, Children's Mercy Hospital, Women and Children's Hospital-University of Missouri Healthcare, and St. Louis University Hospital.

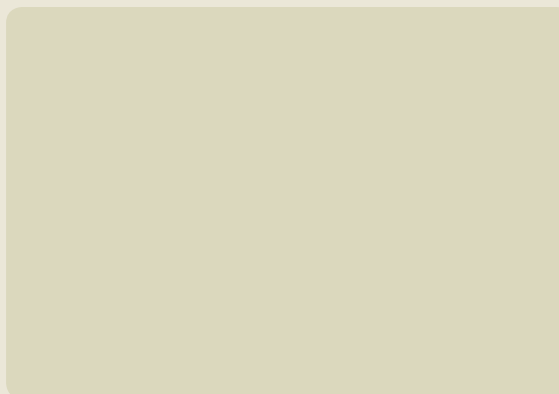
Missouri's top-ranked educational institutions draw unparalleled talent.

- The University of Missouri is one of only a few universities in the United States with schools of medicine, agriculture, and veterinary medicine on one campus.
- The School of Medicine at Washington University in St. Louis is continually ranked among the top in the country. The University is also a top recipient of NIH funding: ranked **4th** in 2011.
- **28** Missouri high schools currently have Project Lead The Way (PLTW) Biomedical Sciences programs. PLTW augments existing high school science and math programs for a solid background in biomedical science.





CORTEX in St. Louis, MO



Jordan Valley Innovation Center

Recent Projects (2011)

- **Gallus Biopharmaceuticals** (HQ St. Louis) a manufacturer of biologic pharmaceuticals, purchased the former 15-acre, 200,000-square-foot Centocor Biologics facility in St. Louis. Gallus invested \$20 million to expand the facility and hired about 160 Centocor employees. The company plans to create approximately 160 new jobs over the next five years.
- **Leinco Technologies** (HQ St. Louis) opened its new research, development, and manufacturing facility in Fenton, creating 48 new high-tech jobs. Leinco provides research services and specialty bioscience manufacturing, including early research products and proteins.
- **SCD Probiotics** (HQ Kansas City) is a company that produces probiotics for nutritional supplements as well as cleaning supplies, lawn and garden products, and pet products. SCD Probiotics announced a \$9.1 million

expansion project with the potential to create 62 jobs in Kansas City.

Other Major Biomedical Companies

- **ABC Laboratories** (HQ Columbia) is a full-service contract research and development company that provides analytical and biological services in support of global product registrations for the pharmaceutical, agricultural, animal health, and chemical industries.
- **Aptuit Inc.** (Kansas City) streamlines and supports drug development for biotechnology and pharmaceutical innovators. The company operates a 450,000 square ft. production facility in Kansas City.
- **Archimica Cooperatief U.A.** (Springfield) engages in the development, manufacture, and commercialization of pharmaceuticals. Its products include reagents and building blocks, regulatory starting materials, cGMP intermediates, and active pharmaceutical ingredients.
- **bioMerieux Inc.** (St. Louis) has been a world leader in the field of in vitro diagnostics for over 45 years, operating in more than 150 countries through 39 subsidiaries and a large network of distributors.
- **Cardinal Scale Manufacturing Company** (HQ Joplin) produces an extensive range of scales for all kinds of industries: medical, food service, truck, and livestock.
- **Covidien Pharmaceuticals** (HQ St. Louis) is a leading manufacturer of medical devices and supplies, diagnostic imaging agents, and pharmaceuticals. Covidien is spinning off its Hazelwood-based pharmaceutical unit into a new public company.
- **Forest Pharmaceuticals** (HQ St. Louis) is a subsidiary of Forest Laboratories, Inc., a manufacturer of pharmaceutical products for cardiovascular, central nervous system, pulmonary, and women's health disorders.



Did you know?

St. Louis is the only region in the country to win both the i6 Challenge Grant and the Jobs and Innovation Accelerator Challenge. These grants—worth \$1 million and \$1.8 million, respectively—support science-based entrepreneurship and high-growth industry clusters. The i6 Challenge Grant alone has resulted in eight new bioscience companies.

- **Millipore Corp.** (St. Charles) provides life sciences research products and services, including drug testing for large pharmaceutical and biotech companies. Millipore's St. Charles operation is well-known in the U.S. for developing research-grade assays for measuring biomarkers in blood and serum. The assays enable scientists to detect diseases such as diabetes and cardiovascular ailments.
- **Pfizer Inc.** (St. Louis) has three R&D locations in the St. Louis area, playing a significant role in bringing new medications to market. Among the products coming out of St. Louis are Celebrex (for Arthritis), Inspira (for hypertension and congestive heart failure), and Genotropin and Somavert (both for hormone disorders). St. Louis is also home to the Global Center of Emphasis of Biologics, which conducts research on target proteins.
- **Reliv International Inc.** (HQ St. Louis) develops, manufactures, and markets nutritional supplements.
- **Sanofi-Aventis** (St. Louis and Kansas City), a Fortune 1000 company, is one of the world's leading pharmaceutical companies. Sanofi-Aventis specializes in seven major therapeutic areas: cardiovascular, thrombosis, oncology, metabolic diseases, central nervous system, internal medicine, and vaccines.
- **Sigma-Aldrich** (HQ St. Louis) produces chemical and biochemical products for scientific research, including genomic and proteomic research, biotechnology, pharmaceutical development, and diagnosis of disease. The company's "targeted knockout" rats—engineered with permanent, heritable gene mutations—were named one of the Top Ten Innovations for 2009 by *The Scientist* magazine.
- **Sinclair Research Center** (Columbia) is a biomedical research facility offering a full range of preclinical research services to the animal and human health industries.
- **Stereotaxis, Inc.** (HQ St. Louis) designs, manufactures, and markets cardiology instrument control systems for the treatment of arrhythmias and coronary artery disease.
- **TEVA Pharmaceuticals USA, Inc.** (Mexico) manufactures and markets generic pharmaceutical products. It offers dosage forms such as tablets, capsules, creams, ointments, inhalants, solutions, and suspensions; and injectable products in vials, I.V. bags, and prefilled syringes.
- **Veran Medical Technologies** (HQ St. Louis) is a medical device company focused on non-invasive, interventional oncology therapies. The company relocated its headquarters from Nashville to St. Louis to build relationships with the local medical community. Veran has secured \$4.75 million from local venture capital and private financing to drive adoption of its IG4 delivery system for minimally invasive biopsies and the ablation of cancer.



The Stowers Institute for Medical Research in Kansas City, MO

Research Parks and Incubators

- **The Center for Emerging Technologies** (St. Louis) develops startup companies in biotechnology, biomedical engineering, advanced materials, and electronics. Stereotaxis became the first of the Center's companies to complete a public offering.
- **The Center of Research, Technology, and Entrepreneurial Exchange (CORTEX)** (St. Louis) is a cutting-edge biotech district located near Washington University in St. Louis, St. Louis University, and Barnes-Jewish Hospital. Institutions within the district annually receive more than \$500 million in NIH funding.
- **Helix Center** (St. Louis) is a new small business incubator that provides startup companies in the plant and life science industries with affordable office and laboratory space, access to expertise, and facilities near the Donald Danforth Plant Science Center and Bio-Research and Development Growth (BRDG) Park. The Helix Center is scheduled

for completion in 2012 with 33,000 square feet of wet and dry lab space.

- **Innovative Technology Enterprises (ITE)** at UMSL is a major force in translating innovative ideas into thriving businesses in information technology and life sciences. ITE offers state-of-the-art infrastructure, in-house mentoring, business development, and access to the University faculty and students. In concert with the University's mission, ITE fosters innovation to support economic development.
- **University of Missouri Discovery Ridge** (Columbia) leverages the University of Missouri's resources in agriculture, health, veterinary medicine, bioengineering, nutrition, biology, and environmental services.
- **The University of Missouri Life Sciences Business Incubator at Monsanto Place** (Columbia) has the capacity for a range of tenants in biomedical technologies, information technology, renewable resources/green technology, and nanotechnology, as well as

more traditional consumer-based businesses. The incubator was designed to establish a technology cluster in mid-Missouri.

- **Missouri Research Park** (St. Louis) has more than 130 acres developed for high-tech and research facilities, housing 15 tenant companies with more than 2,000 employees.

Biomedical Research Centers

- **IDEXX Research Animal Diagnostic Laboratory (RADIL)** (Columbia) is located on the campus of the University of Missouri. The laboratory is one of the two largest research animal diagnostic laboratories in the U.S. and the largest at an academic institution.
- **MRIGlobal** (Kansas City), known formerly as the Midwest Research Institute, has earned international recognition for its health research services supporting the pharmaceutical, biotechnology, veterinary, and agrochemical industries worldwide.



- **Missouri State University Center for Biomedical and Life Sciences (CBLS)** (Springfield) is committed to the development and support of advanced biotechnology industries in Missouri. As part of the Jordan Valley Innovation Center, CBLS focuses on medical instruments, bio-processing techniques and equipment, R&D for agribusiness, and chem/bio sensors and systems.
- **Kansas City University of Medicine and Biosciences' Dybedal Center for Biosciences Research** houses an adult academic clinical research center, strengthening the area's leadership in biomedical research.
- **Alvin J. Siteman Cancer Center** (St. Louis) at Barnes-Jewish Hospital and Washington University School of Medicine is an international leader in cancer treatment, research, prevention, education and community outreach.
- **The St. Louis University Center for Vaccine Development** is a multi-disciplinary research facility for vaccines and biologics, and it

is one of only eight NIH-funded vaccine research institutions. The Center conducted pivotal research on the H1N1 influenza vaccine, biodefense, respiratory syncytial virus (RSV), and tuberculosis vaccines.

- **The Stowers Institute for Medical Research** (Kansas City) conducts basic research on genes and proteins to determine the causes, treatment, and prevention of diseases.
- University of Missouri:**
- **The Dalton Cardiovascular Center** focuses on such ailments as hypertension, cancer, cystic fibrosis, and heart disease. Investigators hold primary academic appointments in the Schools of Medicine, Veterinary Medicine, Engineering, and Arts and Science. Collaboration between scientists within the center and across campus is one of Dalton's greatest strengths.

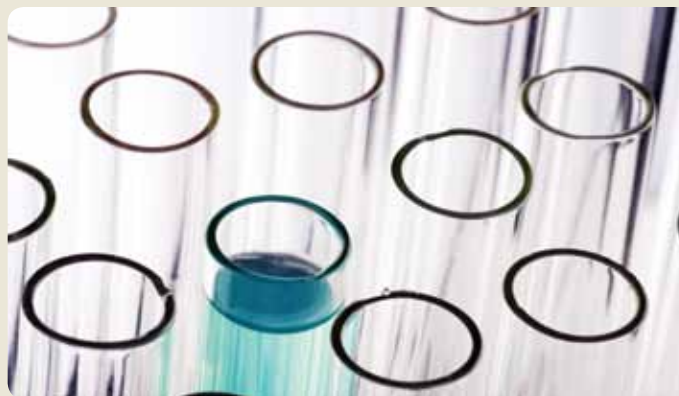
- **The International Institute for Nano and Molecular Medicine** aims to become the international leader in the reinvigorated field of boron neutron capture therapy (BNCT)—a

Did you know?

The Bioscience Industry in Missouri is comprised of over 3,400 companies employing over 50,000 Missourians (*U.S. Bureau of Labor Statistics, 2011*).

cell-selective binary radiation method for cancer, arthritis and evolving non-invasive surgical protocols.

- **The Radiopharmaceutical Sciences Institute (RSI)** focuses research efforts on developing cancer-specific diagnostic and therapeutic radiopharmaceuticals through the design, formulation, and study of novel radiolabeled biomolecular in vivo targeting agents.
- **The MU Research Reactor** is the largest university-operated research reactor in the country, specializing in developing innovative techniques for the diagnosis and cure of cancer and other diseases. MURR is one of only four research reactors in the world producing the radioactive isotope, technetium-99, that is used in about 50,000 medical studies daily in the United States.



- **The University of Missouri-Kansas City Center of Excellence in Mineralized Tissue** was recently established through UMKC's Dental School and Bone Biology and Biomaterials Programs. The Center specifically conducts research to prevent and treat diseases of mineralized tissue, including teeth, cartilage, bone, and muscle tissue. Research at the Center is applied to biomaterials, medical devices, diagnostics, imaging, and veterinary medicine.

Washington University in St. Louis:

- **BioMed 21** (St. Louis) is a research facility jointly developed by Washington University in St. Louis and BJC HealthCare. The facility will house five interdisciplinary research centers: The Center for Cancer Genomics, the Center for the Investigation of Membrane Excitability Disorders (CIMED), the Center for Women's Infectious Disease Research (cWIDR), the Hope Center Program on Protein Folding and Neurodegeneration, and the Center for Interdisciplinary Studies of Diabetic Cardiovascular Disease.
- **Genome Sequencing Center** (St. Louis) was one of the first three sites to begin full-scale human sequencing as part of the Human Genome project. Scientists there were the first in the world to decode the complete DNA sequence of a cancer patient.
- **Molecular Imaging Center** (St. Louis) fosters collaborations on advanced imaging projects between scientists from many different specialties. Initiatives at the center include efforts to track the spread of gene therapy for cancer and projects to closely monitor the contributions of key genes in the start of tumors. While the center's core focus is cancer, it supports collaborative imaging efforts in a wide variety of fields, including immunology, neuroscience and cardiovascular disease.
- **St. Louis Institute of Nanomedicine Working Group** is a recently formed collaboration between Washington University in St. Louis, Saint Louis University, the University of Missouri-St. Louis, and St. Louis Community College. The Working Group received a grant

from the Missouri Life Sciences Research Fund to pay for four pilot research projects a year in applying nanotechnology to the treatment of human diseases.

Top-Ranked Hospitals in Missouri*

- **Barnes Jewish Hospital (BJC)** (St. Louis) ranked eleventh of America's Best Hospitals. BJC also ranks nationally in 15 specialties.
- **St. Louis Children's Hospital** and **Children's Mercy Hospital** (Kansas City) are both listed among of America's Best Children's Hospitals, each ranking nationally in 10 specialties.
- **Women and Children's Hosp.-Univ. of Missouri Healthcare** (Columbia) is one of America's Best Hospitals for neurology and neurosurgery.
- **St. Louis University Hospital:** is one of America's Best Hospitals for geriatric care.

*Source: U.S. News and World Report



Angel Networks

- **Arch Angels** (St. Louis) are a part of the region's seed to later-stage equity capital continuum, targeting an investment range generally underserved by institutional venture capital firms.
- **Billiken Angels** (St. Louis) provides capital to firms in all industries and at all stages, not just start-ups. To be considered, however, a company must be owned by current or former St. Louis University students, faculty, or staff, or firms using intellectual property licensed from Saint Louis University.
- **Centennial Angel Network** (Columbia) is a network of accredited investors devoted to funding technology-based start-ups and early-stage companies.
- **Show-Me Angels** (Lee's Summit) is a membership organization of accredited investors committed to investing in early-stage companies in the Kansas City region.



- **Springfield Angel Network** (Springfield) is a nonprofit corporation introducing start-up and existing entrepreneurs from southwest Missouri (although not exclusively) to individuals capable of investing financially.

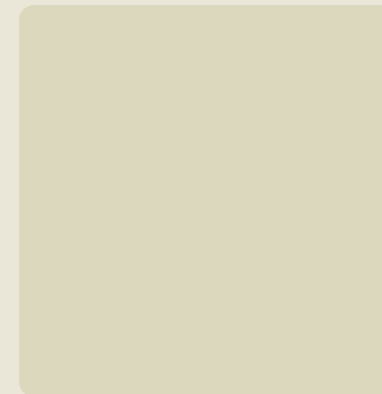
Venture Capital Funds and Resources

- **Advantage Capital Partners** (St. Louis) provides equity and debt capital, along with value-added counsel, to operating businesses with a potential for excellent investor returns and significant community impact.
- **Ascension Health Ventures** (St. Louis) is a strategic healthcare venture fund focused on the medical device, technology, and service sectors with \$325 million under management. A strategic investor, AHV adds value to portfolio companies by sharing solutions across its network of partners.
- **BioGenerator** (St. Louis) is a privately funded, not-for-profit organization that works with researchers, inventors, and entrepreneurs to build successful, sustainable life science companies. The BioGenerator provides assistance—including pre-seed and seed investments, access to no-cost shared labs and equipment, and management support—at the very earliest stages of new company formation.
- **Bush O'Donnell Capital Partners** (St. Louis) invests in companies that have recurring annual revenues of \$5 million or more.
- **Capital for Business, Inc. (CFB)** (St. Louis) targets investments in companies that are leaders in attractive niche markets with the following characteristics: significant and defensible market positions, differentiated products and services, scalable business platforms, and consistent financial performance. CFB targets investments arising from management buyouts, leveraged buyouts, recapitalizations, corporate divestitures, growth financings, and going-private transactions.



Did you know?

The Kansas City region is fifth per capita in clinical trials conducted
(*Missouri Biotechnology Association*).



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- **Country Club Capital Advisors** (Kansas City) is an independent investment banking firm that provides services to middle-market companies, both public and private. Services include consultation of mergers and acquisitions, capital sourcing, and corporate financial and strategic planning.
- **Nidus Partners** (St. Louis) is a unique collaboration between experienced entrepreneurs and strategic corporations for the purpose of identifying and commercializing technologies impacting the energy market. The partnership provides seed funding, entrepreneurial experience, and market input to advance early technology toward commercialization.
- **Oakwood Medical Investors** (St. Louis) is a life sciences venture capital fund formed to invest in development-stage medical device, biopharmaceutical, and healthcare service companies.
- **Prolog Ventures** (St. Louis) specializes in early-stage life science and animal health companies.
- **RiverVest Venture Partners** (St. Louis) invests in medical device and biopharmaceutical companies, as well as later-stage life science businesses.
- **Stifel, Nicolaus & Company, Inc.** (St. Louis) is a co-general partner of Vectis II, a national life sciences venture capital and private equity fund, co-headquartered in St. Louis and in Boston with its partner, Brooke Private Equity Advisors.
- **Thompson Street Capital Partners** (St. Louis) is a private equity firm that invests in profitable middle-market companies headquartered in North America.
- **Tradebot Ventures** (Kansas City) invests in technology-based companies located in the Kansas City region.
- **Triathlon Medical Ventures** (St. Louis) is a Midwest-based venture capital firm that invests exclusively in the life sciences, providing equity capital to early and expansion-stage companies in biomedical technology that address significant human healthcare needs.
- **Vectis Life Sciences Fund I** (St. Louis) is a \$81.5 million fund-of-funds that began making investments in medical science venture capital funds in 2005. **Fund II** is a \$70 million fund-of-funds, but it also invests directly into companies.



A.T. Still University in Kirksville, MO

State Funding Resources

- **Missouri Technology Corporation (MTC)** was established by the Missouri Legislature in 1994 as a private not-for-profit charged with attracting research funding and technology companies to Missouri. MTC has various funding and grant programs aimed at growing the state's bioscience sector, including the Missouri IDEA (Innovation, Development, and Entrepreneurship Advancement) Funds. The IDEA Funds support the transfer of science and technology into job creation and provide financing to eligible businesses through four stages of growth: pre-seed capital-stage financing, seed capital-stage financing, venture capital-stage financing, and expansion-stage debt.
- **Life Sciences Research Trust Fund** was established in 2007 to enhance and transform research into commercial life science technology. The fund's focuses include agriculture, animal science, plant science, medical devices, biomaterials, and composite

research, nanotechnology related to drug development and delivery, diagnostics, clinical imaging, and information technology related to human health.

Investment Capital Conferences

- **Invest Midwest** facilitates investment in the region's top life science, technology, and alternative energy companies. This annual conference attracts more than 300 attendees and has helped generate \$850 million in investment capital over the past twelve years.

Education

- 40 Missouri colleges and universities offer bachelor's degrees or higher in Biological or Biomedical Sciences.
- 86.2 percent of Missouri's population has attained a high school diploma or higher, exceeding the national average of 85 percent.
- Over 1.4 million Missourians hold a bachelor's degree or higher (*U.S. Census Bureau, American Community Survey*).

- In 2010, 79,526 post-secondary degrees/certificates were awarded in the state. Of those, 39,670 were bachelor's degrees, 19,403 were master's degrees, and 4,651 were doctor's. The numbers of degrees awarded in all categories exceeded the national average.

Missouri Medical Schools

- **A.T. Still University** (Kirksville) is the oldest osteopathic institution in the world, founded in 1892. Current enrollment on the Kirksville campus is 725 DO-PhD students.
- **Kansas City University of Medicine and Biosciences** is home to the oldest medical school in Kansas City and the largest in Missouri. Since 1916, the University has awarded the Doctor of Osteopathic Medicine degree to more than 7,000 graduates. Today's enrollment is around 1,000 DO-PhD students.





Did you know?

Scientists at the Washington University Genome Sequencing Center were the first to decode the complete DNA sequence of a cancer patient (*Missouri Biotechnology Association*).

- **St. Louis University School of Medicine (SLU SOM)** is a private, American Allopathic Medical School established in 1836. The school has the distinction of awarding the first M.D. degree west of the Mississippi River. The University's \$82 million Edward A. Doisy Research Center supports researchers working in five key areas of scientific discovery: cancer and molecular biology, liver disease, cardiovascular disease, neurosciences and aging, and vaccine development. The school currently has an enrollment of 700 MD-PhD students.

- **The University of Missouri School of Medicine (Columbia)** was the first publicly supported medical school west of the Mississippi River. *U.S. News and World Report* ranked the Department of Family and Community Medicine as the seventh best family medicine program nationwide in 2011. Nearly 400 MD-PhD students are currently enrolled in the medical school.

- **University of Missouri-Kansas City** offers an accelerated combined bachelor/MD program based on a six-year curriculum, admitting students into the program directly from high school. Currently, 629 students are enrolled in the program.

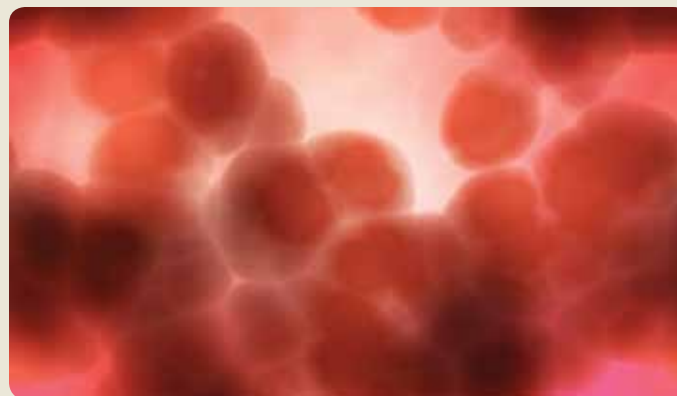
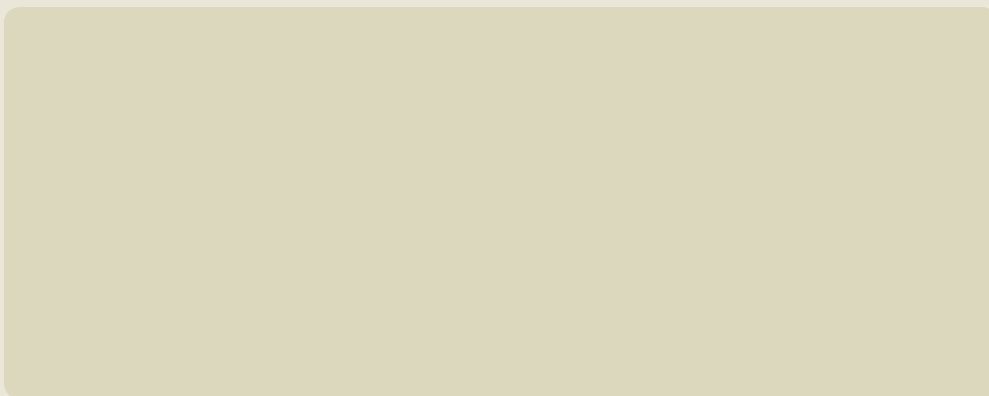
- **Washington University School of Medicine in St. Louis** ranks fourth for NIH funding in 2011 and ranks sixth for research (*U.S. News and World Report, 2012*). The school has been listed among the top ten medical schools since rankings were first published in 1987. Currently, nearly 500 MD-PhD students are enrolled.

Missouri Pharmacy Schools

- **St. Louis College of Pharmacy** The St. Louis College of Pharmacy is the oldest college of pharmacy west of the Mississippi River. The school's sole program is the Doctorate of Pharmacy. Enrollment is currently around 1,100 students.

Other Notable Biomedical Training Programs

- **The Advanced Technology Center (ATC)** is a cooperative effort between the City of Mexico, Linn State Technical College, Moberly Area Community College, and the University of Missouri Outreach and Extension. Current training programs include an Associate of Applied Science degree in Nuclear Technology, with options in radiation protection, instrumentation and control, reactor operations, and quality control. The Nuclear Technology degree is one of only a few such programs in the United States.
- **Project Lead The Way (PLTW) Biomedical Sciences** is an integrated high school program that introduces students to numerous medical fields. PLTW Biomedical Sciences augments existing high school science and math college preparatory programs to establish a solid background in biomedical science. There are 28 high school PLTW Biomedical Sciences programs running in Missouri high schools.

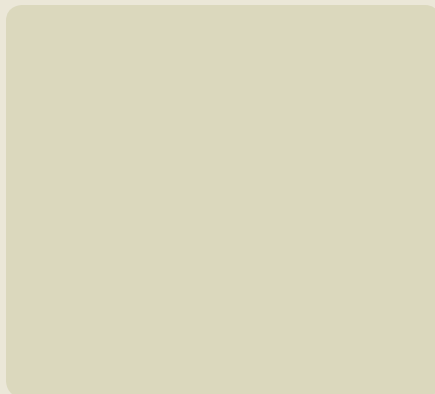


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**Biomedical related degrees granted in 2010**

Discipline	Associate's degree	Bachelor's degree	Master's degree	Doctor's degree	Grand total
Clinical/Medical Laboratory Science/Research and Allied Professions	14	38	0	0	52
Health/Medical Preparatory Programs	0	10	0	0	10
Medical Clinical Studies/Graduate Medical Studies	0	0	13	0	13
Biology/Biological Sciences, General	4	1,506	138	22	1,670
Biomedical/Medical Engineering	0	88	16	17	121
Biology/Biotechnology Laboratory Technician	16	0	0	0	16
Biomedical Sciences, General	0	2	45	0	47
Biochemistry	0	116	19	7	142
Cell/Cellular and Molecular Biology	0	46	5	20	71
Microbiological Sciences and Immunology	0	3	0	29	32
Neurobiology and Neurosciences	29	1	11	0	41
Biological and Biomedical Sciences, Other	0	79	10	0	89
Medicine (MD)	0	0	0	469	469
Osteopathic Medicine (DO)	0	0	0	404	404
Pharmacy, Pharmaceutical Sciences, and Administration (PharmD)	0	0	0	291	291
Total	63	1,889	257	1,259	3,468

Source: National Education Statistics, IPEDS, 2010



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Transportation Infrastructure

- Missouri's transportation system consistently ranks among the top ten of the U.S. (*CNBC*).

- Missouri ranks fourth in the nation for rail and highway accessibility (*Area Development, September 2010*).

Airports

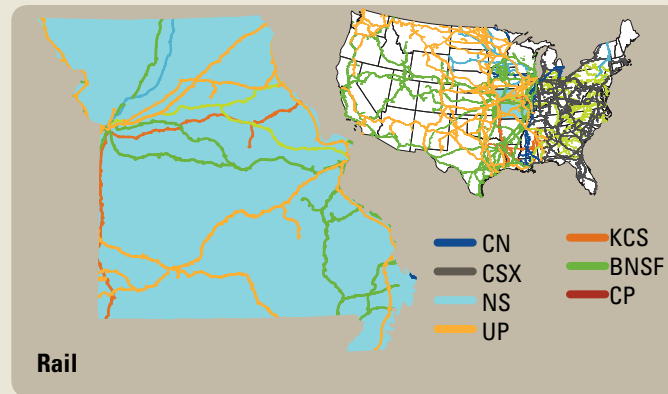
- Whether flying cargo from New York or making a quick trip to offices in San Francisco, Missouri travelers can reach most cities in the United States and Canada in less than three hours by air.
- The airport system in Missouri consists of approximately 140 public airports, with two airports supporting international traffic: Lambert-St. Louis International and Kansas City International.
- Springfield, Branson, Joplin, Columbia, Cape Girardeau, Kirksville and Waynesville (Fort Leonard Wood) also have commercial service.

Foreign Trade Zones

- Missouri has three foreign trade zones: Kansas City, St. Louis, and Springfield.
- The FTZ at St. Louis International Airport was recently expanded to include all of St. Louis and St. Louis County.
- The KCI Intermodal BusinessCentre includes 8,000 acres of multi-use land for development on the airfield designated FTZ and enhanced enterprise zone.

Rail

- Missouri provides efficient, low cost shipping via all class-one carriers: Burlington Northern Santa Fe (BNSF), Kansas City Southern (KCS), Norfolk Southern (NS), Union Pacific (UP), CSX, Canadian National Railway (CN) and Canadian Pacific (CP).
- Missouri ranks tenth in the U.S. for railroad mileage (*Bureau of Transportation Statistics*).



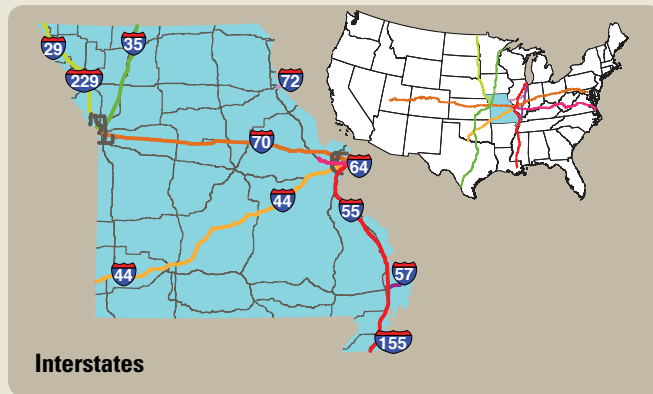
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- Missouri ranks fourth in tons and third in rail carloads carried by state (*Association of American Railroads*).

- The 1,340 acre CenterPoint KCS Intermodal includes an industrial park located adjacent to the Kansas City Southern Intermodal Facility with build-ready sites for facilities up to 1+ million sq. ft. KCS will offer direct rail service to CIC-KC from the deepwater Port of Lazaro Cardenas, Mexico.

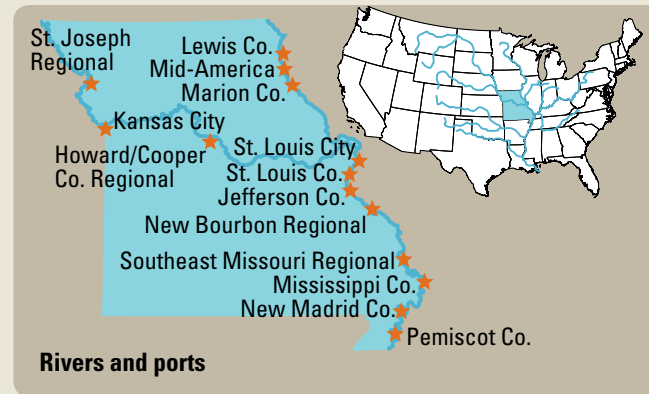
Roads

- Missouri boasts one of the largest and least congested highway and interstate systems.
- Missouri has the seventh largest highway system in the U.S. with 33,677 miles (*Reason Foundation, 2011*).
- Missouri has a total of 1,181 interstate miles, with major interstates including I-64, I-44, I-70, I-55, I-35, and I-29.



Interstates

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Rivers and ports

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- I-70, which bisects Missouri, is 2,000 miles long and passes through 10 states. I-25 and I-35 are within the NAFTA corridor, providing easy access to Canada and Mexico.
- U.S. Hwy 71, located between Kansas City and Joplin, will become an extension of I-49 when a \$65 million upgrade is completed in 2012.
- Missouri received \$922 million in Federal highway funding in 2010 (*State Rankings, Federal Highway Administration*).
- There are more than 99,000 commercial trailers registered in Missouri.
- Twenty-nine industrial centers, with a combined population of 90 million, can be reached from St. Louis by barge. St. Louis is the northern-most point on the Mississippi River that normally remains ice-free and open throughout the year. The city is also the location of the southernmost lock and dam on the Mississippi.
- Missouri has 13 public port authorities and one regional port commission (*Missouri Port Authorities*).
- Almost 2,000 acres are available for development adjacent to Missouri's port authorities.

Waterways

- With the confluence of the two largest river systems in North America, Missouri provides efficient channels for trade and distribution.
- Missouri's 1,000 miles of navigable waterways—ranked tenth for inland waterway mileage—move an average of \$4.1 billion in cargo annually.

Major biomedical companies

- Major biomedical companies
- Research parks and incubators
- Biomedical research centers
- Venture capital funds
- Angel networks
- ▲ Major hospitals
- ✈ Airport
- ⚓ Port



Missouri's targeted industry clusters



Advanced manufacturing



Biosciences



Energy solutions



Financial and professional services



Health sciences and services



Information technology



Transportation and logistics

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